

# ULTRA™ Family of Transformers

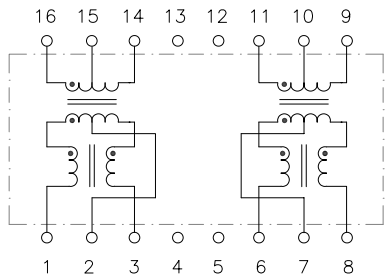


E-ULTRA™ Part Number	Circuit	Package	Temp. Range	Turns Ratio ±3%		Cw/w (pF)	PRI/SEC		RoHS <sup>1</sup>
				(1-3:16-14)	(6-8:11-9)		LL (μH max)	PRI DCR (Ω max)	
TG110-E050N5LF	A	N5	-40 to +85°C	1CT:1CT	1CT:1CT	35 max	0.4	1.0	Pb-Free
TG110-E050N5RL	A	N5	-40 to +85°C	1CT:1CT	1CT:1CT	40 max	0.4	1.0	RoHS (7a)
TG110-E055N5LF	B	N5	-40 to +85°C	1CT:1CT	1CT:1CT	35 max	0.4	1.0	Pb-Free
TG110-E055N5RL	B	N5	-40 to +85°C	1CT:1CT	1CT:1CT	40 max	0.4	1.0	RoHS (7a)
TG110-E120N5LF	B	N5	-40 to +85°C	2CT:1CT	1CT:1CT	40 max	0.9	1.3	Pb-Free
TG110-E120N5RL	B	N5	-40 to +85°C	2CT:1CT	1CT:1CT	40 max	0.9	1.3	RoHS (7a)
TG110-E125N5LF	B	N5	-40 to +85°C	1CT:1CT	2CT:1CT	40 max	0.9	1.1	Pb-Free
TG110-E125N5RL	B	N5	-40 to +85°C	1CT:1CT	2CT:1CT	40 max	0.9	1.1	RoHS (7a)
TG110-E139N5LF	B	N5	-40 to +85°C	1.25CT:1CT	1CT:1CT	30 typ	0.4	1.3	Pb-Free
TG110-E139N5RL	B	N5	-40 to +85°C	1.25CT:1CT	1CT:1CT	30 typ	0.4	1.3	RoHS (7a)

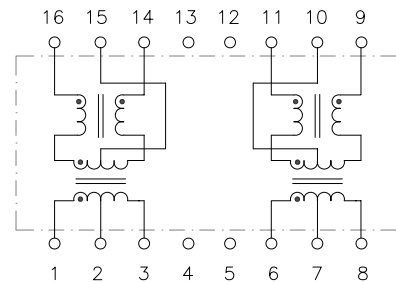
Notes:

1. Pb-Free parts are RoHS 6/6 compliant. RoHS (7a) parts contain lead per exemption 7a which is set to expire in July 2016.
2. Parts with RL suffix are not recommended for new designs.
3. Contact the factory or your local representative for individual datasheet or additional information.

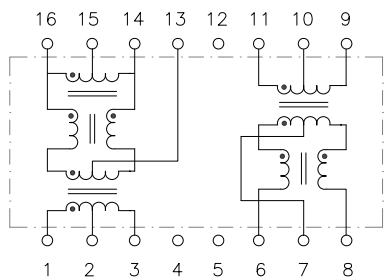
Circuit A



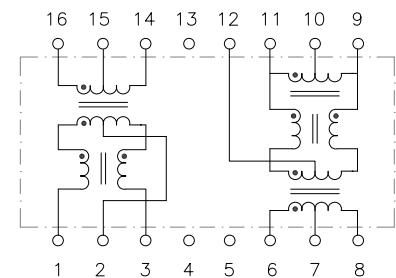
Circuit B



Circuit C

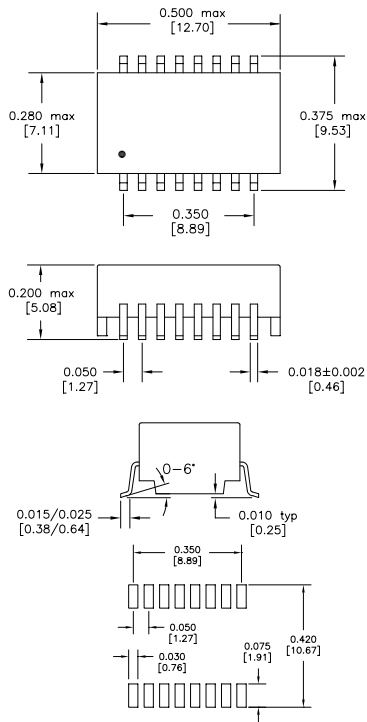


Circuit D



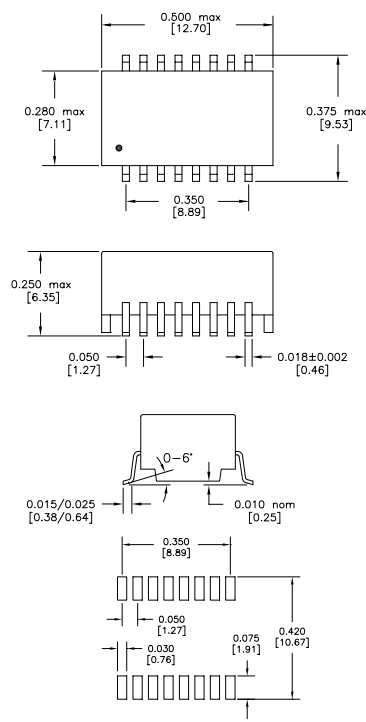
# HALO ULTRA 10/100BASE-TX Ethernet Transformers

## N2 Package



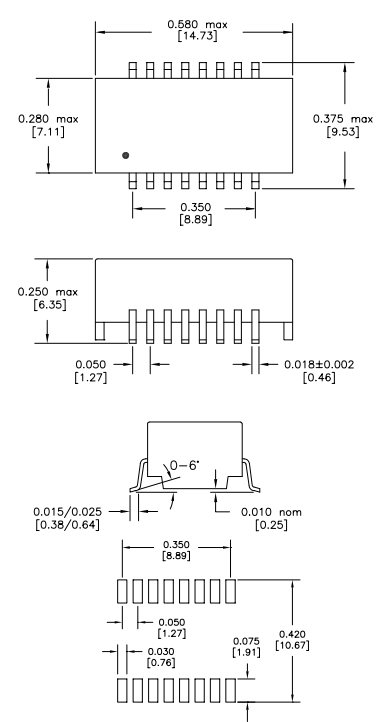
Recommended Solder Pad Dimensions

## N5 Package



Recommended Solder Pad Dimensions

## N6 Package



Recommended Solder Pad Dimensions

Dimensions: inch [mm]

Co-Planarity: 0.004 [0.10]



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HALO® Electronics is a leading supplier of high quality communication magnetics including signal transformers, filters, CMR chokes, PoE power transformers, DC/DC converters, and integrated Ethernet connectors. HALO's leading edge technology solutions are manufactured in ISO9001 and ISO14001 factories offering high quality products at a competitive price.

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[TG110-E055N5LF](#) [TG110-S131N2RL](#) [TG110-E050N5LF](#) [TG110-3506N6RL](#) [TG110-E050N5RL](#) [TG110-E055N5RL](#)  
[TG110-E055N5LFTR](#) [TG110-S050N2RL](#) [TG110-E050N5LFTR](#) [TG110-S055N2LFTR](#) [TG110-E050N5RLTR](#) [TG110-](#)  
[S050N2RLTR](#) [TG110-S055N2RLTR](#) [TG110-E055N5RLTR](#) [TG110-S050N2LFTR](#) [TG110-S055N2RL](#) [TG110-S141N5](#)  
[TG110-S177N2RL](#) [TG110-E120N5RL](#) [TG110-E125N5RL](#) [TG110-E139N5RL](#) [TG110-S141N5RL](#) [TG110-](#)  
[3506N6RLTR](#) [TG110-S125N2RLTR](#) [TG110-S139N2RLTR](#) [TG110-S120N2RLTR](#) [TG110-S131N2RLTR](#) [TG110-](#)  
[S101N6RLTR](#)